

## Model Information



### ■ Features

- VIA Nano 1.0GHz
- VX800 chipset, 500MHz FSB
- 1 GB DDR2 SDRAM
- Express Card 34 slot (USB interface)
- HD Audio, speaker and microphone
- HDD/SSD drive bay
- 2 x Giga LAN
- Digital and Analogue I/O
- Option: WLAN, Bluetooth, GPS, 3G/GSM

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# RISE 4200

Quick Link: | [Features](#) | [More Pictures](#) | [Overview](#) | [Chassis](#) | [Hardware](#) | [Memory](#) | [Video](#) | [Integrated Devices](#) | [Connectivity](#) | [Power supply](#) | [Environment](#) | [Supported OS](#) | [Ordering Information](#) |

### ■ More Pictures



Klick on the thumbnails for the large picture ...

[>Back to top](#)

### ■ Overview

The RISE series of DinRail-PC is designed for harsh industrial environments. It features fanless and cableless, low power consumption and operating over wide temperature ranges. Its reliable design allows to withstand mechanical vibrations, extremely hot or cold environments, power failures or environmental electrostatic discharges.

The RISE series has a modular and reliable design based on the newly emerged standard of Qseven core modules, which supports both Intel's Atom Z5xxP and Via's Nano/Eden high performance CPUs. The RISE series integrates a rich choice of connectivity devices, such as multiple LANs, USB and serial ports, VGA, digital I/O and optionally WLAN, Bluetooth, 3G/GPRS modems to match different industrial application requests.

### ■ Chassis

<b>Construction</b>	Full size stainless steel Aluminum cooling plate with fins
<b>Mounting configuration</b>	DIN Rail
<b>Cooling system</b>	passive heatsink, fanless
<b>LED indicator</b>	Power on/off, HDD access, LAN access
<b>Expansion slot</b>	<ul style="list-style-type: none"> <li>● 1 x Mini PCI Express</li> <li>● PCIe x1</li> <li>● USB 2.0 and 1.x</li> </ul>

<b>Expansion slot</b>	<ul style="list-style-type: none"> <li>• 1 x Express Card 34</li> <li>• USB 2.0 and 1.x only</li> </ul>
<b>Dimensions</b>	163 x 111 x 83 mm <sup>3</sup>
<b>Power switch</b>	Bottom side
<b>Reset Switch</b>	Bottom side

[>Back to top](#)

## ■ Hardware

<b>Processor</b>	VIA NANO 64 bit @ 1.0GHz, 500MHz FSB
<b>CPU socket</b>	Q7 module
<b>BIOS</b>	Phoenix - Award BIOS
<b>Chipset</b>	VIA VX800

[>Back to top](#)

## ■ Memory

<b>Memory type</b>	DDR2 1GB
<b>Memory socket</b>	soldered onto Q7 module
<b>BIOS</b>	4MBit SPI Flash

[>Back to top](#)

## ■ Video

<b>VGA Controller</b>	VIA Chrome9™ HC3 integrated graphics
<b>Video RAM</b>	up to 256MB frame buffer
<b>Interface</b>	VGA
<b>Resolution</b>	Up to 1920 × 1080 / 32bit
<b>Extras</b>	MPEG-2, MPEG-4, VC1 and DivX video decoding acceleration

[>Back to top](#)

## ■ Integrated Devices

<b>HDD/SSD Bay</b>	1 x 1.8" SATA HDD or SSD
<b>CF card slot</b>	1 x CF card in True IDE mode
<b>HD-Audio</b>	Mic-in 1 x Speaker-out
<b>Real Time clock</b>	Standard
<b>Keyboard/Mouse</b>	Connect at USB Internal pin header for PS/2 Keyboard and Mouse

[>Back to top](#)

## ■ Connectivity

<b>LAN</b>	2 x RJ45 GigaLAN (Marvell 88E8057) support PXE boot
<b>USB</b>	4 x USB 2.0, support boot function
<b>VGA</b>	1 x 15-pin connector
<b>Com Ports</b>	<ul style="list-style-type: none"> <li>• 2 x RS232 DB9 male, max. 115.200bps</li> <li>• 1 x RS232 DB9 male, max. 500.000bps</li> <li>• 1 x RS422/485 on terminal block</li> </ul>
<b>RS422/485</b>	<ul style="list-style-type: none"> <li>• Up to 1 Mbit/s (theor. 12 MBit/s).</li> <li>• RS422 Full-Duplex, RS485 bus mode configured by DIP switch.</li> <li>• RS485 Automatic Transceiver control.</li> <li>• Signals on Terminal Block.</li> </ul>

<b>HD-Audio</b>	Line-in (Mic-in) Line-out ear-jet connectors
<b>Digital I/O</b>	Terminal Blocks on Top and Bottom side <ul style="list-style-type: none"> <li>• 4 x Output</li> <li>• 4 x Input</li> <li>• 2 x Counter</li> <li>• 2 x ADC</li> <li>• 1 x I<sup>2</sup>C</li> </ul>
<a href="#">&gt;Back to top</a>	
<b>■ Power supply</b>	
<b>Power input</b>	DC 10-30V
<b>Power consumption</b>	min 18W
<a href="#">&gt;Back to top</a>	
<b>■ Environment</b>	
<b>Operating Temp.</b>	-20° to +55°C
<b>Storage Temp.</b>	-20° to +80°C
<a href="#">&gt;Back to top</a>	
<b>■ Supported OS</b>	
<b>Microsoft</b>	Windows XP/XPE, Windows 7
<b>Linux</b>	Kernel 2.4 / 2.6 / 3.x
<a href="#">&gt;Back to top</a>	
<b>■ Ordering Information</b>	
<b>Art.No</b>	3871
<b>Product Name</b>	RISE 4200
<b>Packing list</b>	RISE 4200 Embedded System Terminal blocks for Digital-I/O and Power supply CD-ROM with English documentation, drivers and tools
<a href="#">&gt;Back to top</a>	

# RISE 4200

[>Back](#)

